



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 62271-102**

ICS 29.130.10  
29.130.99

**HIGH -VOLTAGE SWITCHGEAR AND  
CONTROLGEAR PART 102: ALTERING  
CURRENT DISCONNECTORS AND EARTHING  
SWITCHES (IEC 62217-102:2001 +  
CORRIGENDA 2002 & 2003)**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 62271-102**

July 2002

ICS 29.130.10;29.130.99

Supersedes EN 60129:1994 + A1:1994 + A2:1996;  
EN 61129:1994 + A1:1995 and  
EN 61259:1994  
**Incorporates Corrigendum March 2005**

English version

**High-voltage switchgear and controlgear**  
**Part 102: Alternating current disconnectors and earthing switches**  
(IEC 62271-102:2001 + corrigenda 2002 & 2003)

Appareillage à haute tension  
Partie 102: Sectionneurs et sectionneurs  
de terre à courant alternatif  
(CEI 62271-102:2001  
+ corrigenda 2002 & 2003)

Hochspannungs-Schaltgeräte  
Teil 102: Wechselstrom-Trennschalter  
und -Erdungsschalter  
(IEC 62271-102:2001  
+ Corrigenda 2002 & 2003)

This European Standard was approved by CENELEC on 2002-03-05. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 17A/617/FDIS, future edition 1 of IEC 62271-102, prepared by SC 17A, High-voltage switchgear and controlgear, of IEC TC 17, Switchgear and controlgear, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62271-102 on 2002-03-05.

This European Standard supersedes the European Standards EN 60129:1994 + A1:1994 + A2:1996 , EN 61129:1994 + A1:1995 and EN 61259:1994.

The following dates were fixed:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 2003-02-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2005-03-01

This European Standard is to be used in conjunction with EN 60694:1996 to which it refers and which is applicable, unless otherwise specified. In order to simplify the indication of corresponding requirements, the same numbering of clauses and subclauses is used as in EN 60694. Additional subclauses are numbered from 101.

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes A, B, C, E, F and ZA are normative and annex D is informative.

Annex ZA has been added by CENELEC.

The contents of the corrigendum of March 2005 have been included in this copy.

The numbering of the standards falling under the responsibility of IEC/SC 17A and IEC/SC 17B will apply the following principle:

- a) Common standards prepared by SC 17A and SC 17C will start with IEC 62271-001;
- b) Standards of SC 17A will start with IEC 62271-100;
- c) Standards of SC 17C will start with IEC 62271-200;
- d) Publications prepared by SC 17A and SC 17C will start with IEC 62271-300.

The table below relates the new numbers to the old numbers. The parts numbered (xxx) will be given a final number pending the decision to publish the revised publication as standard or technical report.

IEC 62271/ EN 62271	High-voltage switchgear and controlgear –	Number of previous standard, if any	
		IEC	EN/HD
Part	Original title		
1	Common specifications	60694	EN 60694
2	Seismic qualification for rated voltages of 72,5 kV and above	--	--
100	High-voltage alternating current circuit-breakers	60056	HD 348, mod.
101	Synthetic testing	60427	EN 60427
102	Alternating current disconnectors and earthing switches	60129	EN 60129
103	Switches for rated voltages above 1 kV and less than 52 kV	60265-1	EN 60265-1
104	Switches for rated voltages of 52 kV and above	60265-2	EN 60265-2
105	Alternating current switch-fuse combinations	60420	EN 60420
106	Alternating current contactors and contactor based motor-starters	60470	EN 60470
107	Alternating current switchgear-fuse combinations	--	--
108	Switchgear having combined functions	--	--
109	Series capacitor by-pass switches		
200	A.C. metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	60298	EN 60298
201	Insulation-enclosed switchgear and controlgear for rated voltages up to and including 52 kV	60466	--
202	High-voltage/low-voltage prefabricated substations	61330	EN 61330
203	Gas-insulated metal enclosed switchgear for rated voltages above 52 kV	60517	EN 60517
204	High-voltage gas-insulated transmission lines for rated voltages of 72,5 kV and above	61640	--
(300)	Guide for seismic qualification of high-voltage alternating current circuit-breakers	61166	EN 61166
(301)	Guide for inductive load switching	61233	--
(302)	Guide for short-circuit and switching test procedures for metal-enclosed and dead tank circuit-breakers	61633	--
(303)	Use and handling of sulphur hexafluoride (SF <sub>6</sub> ) in high-voltage switchgear and controlgear	61634	--
(304)	Additional requirements for enclosed switchgear and controlgear from 1 kV to 72,5 kV to be used in severe climatic conditions	60932	--
(305)	Cable connections for gas-insulated metal-enclosed switchgear for rated voltages above 52 kV	60859	--
(306)	Direct connection between power transformers and gas-insulated metal-enclosed switchgear for rated voltages above 52 kV	61639	--
(307)	The use of electronic and associated technologies in auxiliary equipment of switchgear and controlgear	62063	--
308	Guide for asymmetrical short-circuit breaking test duty T100a	62215	--
309	TRV parameters for high-voltage switchgear and controlgear for rated voltages above 1 kV and less than 100 kV	--	--
310	Electrical endurance testing for circuit-breakers of rated voltage 72,5 kV and above	--	--

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### **Endorsement notice**

The text of the International Standard IEC 62271-102:2001 and its corrigenda April 2002 and May 2003 was approved by CENELEC as a European Standard without any modification.

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